

Claims

1. A settable mixture comprising

- (i) a water absorbing composition and
- (ii) an aqueous emulsion of organic polymer or
- (iii) dispersible organic polymer,

wherein the water absorbing composition (i) contains inorganic ingredients which are capable to react with water and the water absorbing composition (i) contains at least 13 weight % lime and at least 5 weight % of a cementitious composition of which components form ettringite during the absorption of water and

wherein the amount of the aqueous emulsion of organic polymer (ii) in relation to (i) is such as to provide a ratio of combined weight of polymer solids to combined weight of ingredients which are capable to react with water of from 0.5:1 to 10:1, preferably 1:1 to 4:1 and

wherein the amount of dispersible organic polymer (iii) in relation to (i) is such as to give a ratio of combined weight of polymers to combined weight of ingredients which are capable to react with water of from 0.5:1 to 10:1, preferably 1:1 to 4:1.

2. A settable mixture according to claim 1, wherein the sum of the weight of the lime and the weight of the cementitious composition is 67 to 100 %, preferably 90 to 100 % and more preferably approximately 100 % of the total weight of the water absorbing composition (i).

3. A settable mixture according to claim 1 or 2, wherein the water absorbing composition (i) contains at least 25 weight %, preferably at least 62 weight % lime.

4. A settable mixture according to one of the claims 1 to 3, wherein the cementitious composition contains calcium aluminate and calcium sulfate.

5. A settable mixture according to one of the claims 1 to 4, wherein in respect to the formation of ettringite the water absorbing composition (i) contains a stoichiometric surplus of lime.

6. A method of applying a coating to a surface which method comprises forming a settable mixture according to one of the claims 1 to 5, containing a water absorbing composition (i) and an aqueous emulsion of organic polymer (ii) and putting the settable mixture on the surface to form a coating preferably at least 2 mm in thickness.

7. A method of applying a coating to a surface which method comprises forming a settable mixture according to one of the claims 1 to 5 containing water absorbing composition (i) and dispersible organic polymer (iii), combining the settable mixture with water and putting the mixture on the surface to form a coating preferably at least 2 mm in thickness.

8. Coating manufacturable according to a method which is defined in claim 6 or 7.

9. Use of a coating as defined in claim 8 as a rock support means.

10. Use of a coating as defined in claim 8 as a waterproofing means.